Seat No.:	
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AG-132

April-2015

B.Sc., Sem.-VI

Elective : Biotechnology/Environmental Science

SEC-311: Biology of Fungi

Tim	Time: 3 Hours]		[Max. Marks: 70
1.	Ansv	wer the following questions: (any two)	14
	(A)	Explain ultra-structure of fungi.	
	(B)	Explain physiological aspect of fungi in detail.	
	(C)	Describe phylogenetic and molecular approach for fungal classific	ation.
	(D)	Enlist the classes of fungi and describe any one class in detail.	
2.	Ansv	wer the following questions: (any two)	14
	(A)	Define Heterokaryosis and explain with diagram the process.	
	(B)	Explain reproduction of Saccharomyces.	
	(C)	Describe genetic manipulation in Neurospora.	
	(D)	Explain characteristics of <i>Pleurotus ostreatus</i> .	
3.	Answer the following questions: (any two)		14
	(A)	Explain causative agent and diagnosis of systematic mycoses.	
	(B)	Describe control and treatment of superficial mycoses.	
	(C)	Explain causative agent and diagnosis of cutaneous mycoses.	
	(D)	Describe control and treatment of sub-cutaneous mycoses.	
4.	Answer the following questions: (any two)		14
	(A)	Explain inoculum development for fungal fermentation.	
	(B)	Describe role of fungi in Biodeterioration.	
	(C)	List secondary metabolites produced by fungi giving its importance	e.
	(D)	Explain the methods of preservation of fungal cultures.	
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- 5. Answer the following questions : (**All** are compulsory)
 - (1) Name the material subjected to Biodeterioration.
 - (2) Which fungus is producing Aflatoxin?
 - (3) Give the example of sac-fungi.
 - (4) Which fungi shows recombination by parasexual cycle?

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- (5) Which yeast is useful for the production of beverages?
- (6) Name of any two semi-synthetic antibiotics.
- (7) Which fungi produces ochratoxin?
- (8) Write symptoms after ingesting fungal toxins.
- (9) Give the example of fungi causing white-rot.
- (10) Which fungi are used for production of enzyme?
- (11) Which fungi are responsible for genitourinary tract infection?
- (12) Which taxonomic class mushroom fungi belongs to?
- (13) Define Bioremediation.
- (14) Give the two examples of Zygomycete fungi.

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